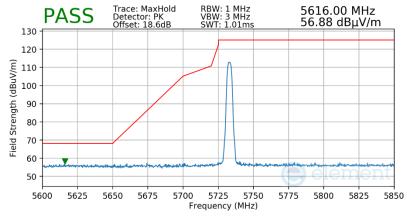
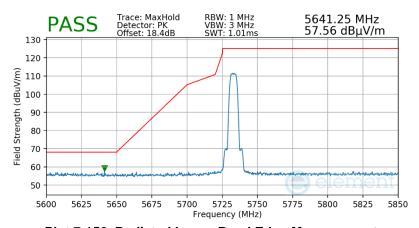


Mode:HDR4Power SchemeePAMeasurement Distance:3 MetersOperating Frequency:5733MHz



Plot 7-151. Radiated Lower Band Edge Measurement

Mode:HDR8Power SchemeePAMeasurement Distance:3 MetersOperating Frequency:5733MHz

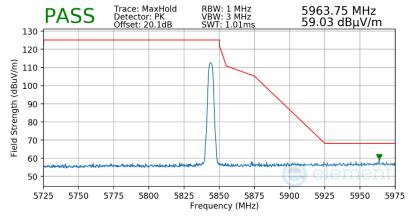


Plot 7-152. Radiated Lower Band Edge Measurement

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|-----------------------------------|
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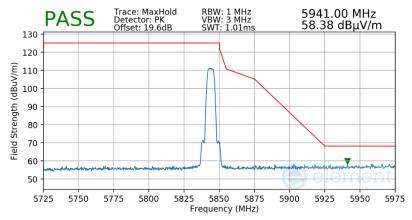


Mode:HDR4Power SchemeePAMeasurement Distance:3 MetersOperating Frequency:5844MHz



Plot 7-153. Radiated Upper Band Edge Measurement

Mode: HDR8
Power Scheme ePA
Measurement Distance: 3 Meters
Operating Frequency: 5844MHz



Plot 7-154. Radiated Upper Band Edge Measurement

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 122 of 126 |
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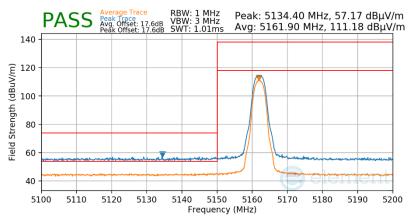


TxBF

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

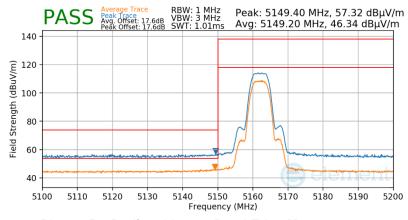
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) - Preamplifier Gain

Mode:HDR4Power SchemeePAMeasurement Distance:3 MetersOperating Frequency:5162MHz



Plot 7-155. Radiated Lower Band Edge Measurement

Mode: HDR8
Power Scheme ePA
Measurement Distance: 3 Meters
Operating Frequency: 5162MHz

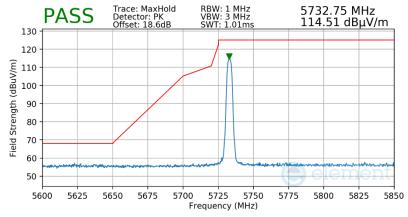


Plot 7-156. Radiated Lower Band Edge Measurement

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 122 of 126 |
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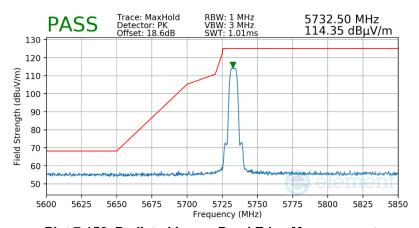


Mode: HDR4
Power Scheme ePA
Measurement Distance: 3 Meters
Operating Frequency: 5733MHz



Plot 7-157. Radiated Lower Band Edge Measurement

Mode:HDR8Power SchemeePAMeasurement Distance:3 MetersOperating Frequency:5733MHz

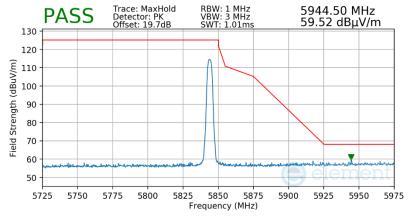


Plot 7-158. Radiated Lower Band Edge Measurement

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 124 of 126 |
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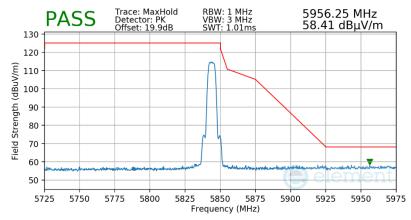


Mode:HDR4Power SchemeePAMeasurement Distance:3 MetersOperating Frequency:5844MHz



Plot 7-159. Radiated Upper Band Edge Measurement

Mode: HDR8
Power Scheme ePA
Measurement Distance: 3 Meters
Operating Frequency: 5844MHz



Plot 7-160. Radiated Upper Band Edge Measurement

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 125 of 126 |
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7.7 Radiated Spurious Emissions – Below 1GHz §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-34 per Section 15.209.

| Frequency | Field Strength [µV/m] | Measured Distance [Meters] | |
|-------------------|--------------------------|-------------------------------|--|
| 0.009 - 0.490 MHz | 2400/F (kHz) | 300 | |
| 0.490 – 1.705 MHz | 24000/F (kHz) | 30 | |
| 1.705 – 30.00 MHz | 30 | 30 | |
| 30.00 – 88.00 MHz | 100 | 3 | |
| 88.00 – 216.0 MHz | 150 | 3 | |
| 216.0 – 960.0 MHz | 200 | 3 | |
| Above 960.0 MHz | 500 | 3 | |

Table 7-34. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 126 of 126 |
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Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

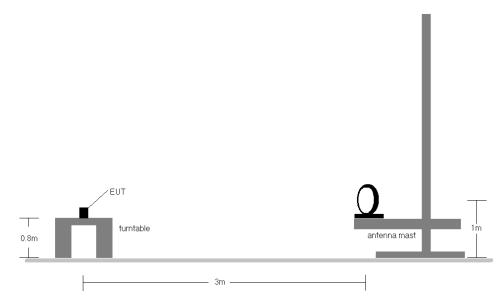


Figure 7-6. Radiated Test Setup < 30MHz

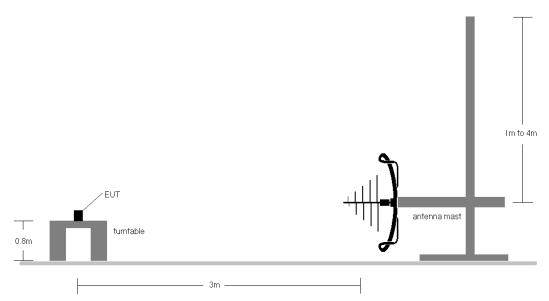


Figure 7-7. Radiated Test Setup < 1GHz

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
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Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-34.
- The broadband receive antenna is manipulated through vertical and horizontal polarizations during the
 tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was
 positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst
 case emissions.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- 9. All supported modulation have been tested on the unit and only worst case configuration is reported.
- 10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT charged by charging case and powered by AC/DC adaptor with lightning cable.
 - b. EUT charged by charging case and powered by host PC with lightning cable

Sample Calculations

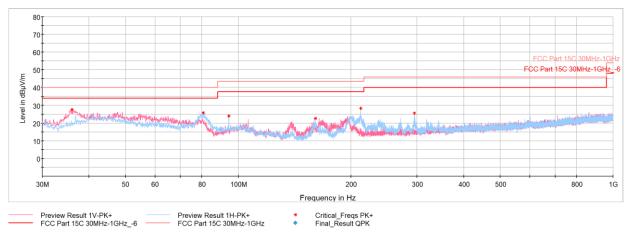
Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
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TxBF Radiated Spurious Emissions (Below 1GHz) §15.209



Plot 7-161. RSE 30MHz - 1GHz TxBF (HDR4 - 5245MHz), with AC/DC Adapter

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|--------------------|----------|-----------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|-------------------|----------------|
| 35.97 | Max Peak | V | 100 | 157 | -60.84 | -18.46 | 27.70 | 40.00 | -12.30 |
| 80.54 | Max Peak | Н | 200 | 138 | -58.23 | -22.85 | 25.92 | 40.00 | -14.08 |
| 94.46 | Max Peak | Н | 200 | 285 | -63.85 | -19.06 | 24.09 | 43.52 | -19.43 |
| 160.51 | Max Peak | Н | 100 | 253 | -63.88 | -20.41 | 22.71 | 43.52 | -20.81 |
| 212.02 | Max Peak | Н | 100 | 163 | -60.76 | -17.96 | 28.28 | 43.52 | -15.24 |
| 294.96 | Max Peak | Н | 100 | 130 | -66.10 | -15.35 | 25.55 | 46.02 | -20.47 |

Table 7-35. RSE 30MHz - 1GHz TxBF (HDR4 - 5245MHz), with AC/DC Adapter

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 129 of 136 |
| 1C2205090025-17.BCG | 05/30/2022 - 9/13/2022 | Tablet Device | raye 129 01 130 |



7.8 AC Line Conducted Emissions Measurement §15.207

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

| Frequency of emission (MHz) | Conducted I | Limit (dBμV) |
|-----------------------------|-------------|--------------|
| (IVITIZ) | Quasi-peak | Average |
| 0.15 – 0.5 | 66 to 56* | 56 to 46* |
| 0.5 – 5 | 56 | 46 |
| 5 – 30 | 60 | 50 |

Table 7-36. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Subclause 6.2

Test Settings

Quasi-Peak Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Average Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

| FCC ID: BCGA2435 | element | element MEASUREMENT REPORT (CERTIFICATION) | |
|---------------------|------------------------|--|-----------------|
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^{*}Decreases with the logarithm of the frequency.



Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

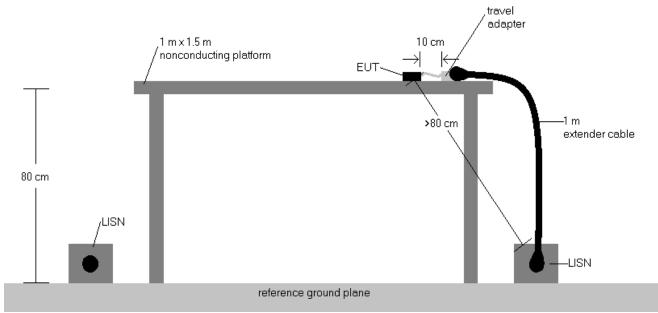


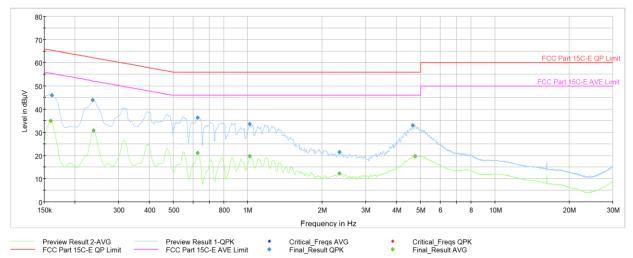
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- 2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT charged by charging case and powered by AC/DC adaptor with lightning cable.
 - b. EUT charged by charging case and powered by host PC with lightning cable.
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
- 4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
- 6. Margin (dB) = QP/AV Level (dB μ V) QP/AV Limit (dB μ V)
- 7. Traces shown in plots are made using quasi-peak and average detectors.
- 8. Deviations to the Specifications: None.

| FCC ID: BCGA2435 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|---------------------|--|---------------|--------------------------------|
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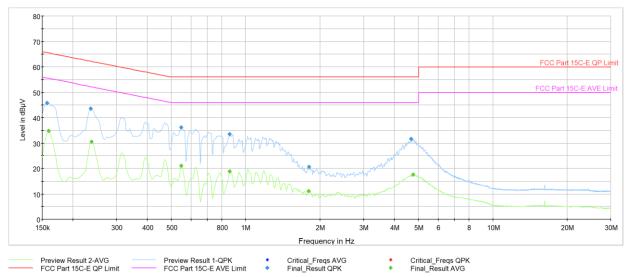
Plot 7-162. AC Line Conducted Plot (HDR4 - 5245MHz) (L1) with AC/DC Adapter

| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Averaqe [dBµV] | Limit [dB µ ∀] | Marqin [dB] | Line | PE |
|--------------------|------------------|---------------------|-------------------|--------------------------|-------------|------|-----|
| 0.159 | FINAL | | 34.97 | 55.52 | -20.55 | L1 | GND |
| 0.161 | FINAL | 46.1 | | 65.40 | -19.27 | L1 | GND |
| 0.236 | FINAL | 44.0 | | 62.25 | -18.26 | L1 | GND |
| 0.238 | FINAL | | 30.81 | 52.17 | -21.37 | L1 | GND |
| 0.627 | FINAL | 36.4 | | 56.00 | -19.65 | L1 | GND |
| 0.627 | FINAL | | 21.19 | 46.00 | -24.81 | L1 | GND |
| 1.019 | FINAL | 33.5 | | 56.00 | -22.46 | L1 | GND |
| 1.019 | FINAL | | 19.77 | 46.00 | -26.23 | L1 | GND |
| 2.346 | FINAL | | 12.35 | 46.00 | -33.65 | L1 | GND |
| 2.348 | FINAL | 21.6 | | 56.00 | -34.45 | L1 | GND |
| 4.652 | FINAL | 33.1 | | 56.00 | -22.91 | L1 | GND |
| 4.751 | FINAL | | 19.82 | 46.00 | -26.18 | L1 | GND |

Table 7-37. AC Line Conducted (HDR4 - 5245MHz) (L1) with AC/DC Adapter

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 122 of 126 |
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Plot 7-163. AC Line Conducted Plot (HDR4 - 5245MHz) (N) with AC/DC Adapter

| Frequency [MHz] | Process State | QuasiPeak [dBµV] | Average [dBµV] | Limit [dB µ V] | Marqin [dB] | Line | PE |
|--------------------|------------------|---------------------|-------------------|--------------------------|-------------|------|-----|
| 0.157 | FINAL | 45.9 | | 65.63 | -19.75 | N | GND |
| 0.159 | FINAL | | 34.78 | 55.52 | -20.73 | N | GND |
| 0.236 | FINAL | 43.6 | | 62.25 | -18.63 | N | GND |
| 0.238 | FINAL | | 30.56 | 52.17 | -21.61 | N | GND |
| 0.548 | FINAL | 36.3 | | 56.00 | -19.75 | N | GND |
| 0.548 | FINAL | | 21.10 | 46.00 | -24.91 | N | GND |
| 0.861 | FINAL | 33.5 | | 56.00 | -22.47 | N | GND |
| 0.861 | FINAL | | 18.90 | 46.00 | -27.10 | N | GND |
| 1.795 | FINAL | | 11.25 | 46.00 | -34.75 | N | GND |
| 1.797 | FINAL | 20.6 | | 56.00 | -35.41 | N | GND |
| 4.655 | FINAL | 31.7 | | 56.00 | -24.33 | N | GND |
| 4.745 | FINAL | | 17.60 | 46.00 | -28.40 | N | GND |

Table 7-38. AC Line Conducted (HDR4 - 5245MHz) (N) with AC/DC Adapter

| FCC ID: BCGA2435 | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|---------------------|------------------------|---------------------------------------|--------------------------------|
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2435** is in compliance with is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

| FCC ID: BCGA2435 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|---------------------|--|---------------|-----------------------------------|
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9.0 APPENDIX A

Antenna gains provided by manufacturer.

Antenna Gains

| Frequency (MHz) | Horizontal (dBi) | Vertical (dBi) |
|-----------------|------------------|----------------|
| 5180 | 3.7 | 1.0 |
| 5260 | 3.6 | 0.9 |
| 5320 | 3.4 | 1.0 |
| 5500 | 3.1 | 0.4 |
| 5600 | 3.3 | -0.4 |
| 5700 | 3.5 | 0.2 |
| 5745 | 3.7 | 0.5 |
| 5785 | 3.7 | 1.0 |
| 5825 | 4.0 | 1.8 |
| 5955 | 4.2 | 2.4 |
| 6075 | 3.9 | 1.9 |
| 6135 | 3.9 | 1.5 |
| 6255 | 4.1 | 1.9 |
| 6375 | 4.2 | 1.8 |
| 6435 | 4.3 | 2.0 |
| 6555 | 3.4 | 1.4 |
| 6675 | 4.2 | 2.8 |
| 6735 | 4.1 | 3.3 |
| 6855 | 4.7 | 2.4 |
| 6975 | 4.2 | 2.0 |
| 7035 | 4.1 | 2.4 |
| 7115 | 4.1 | 3.0 |

Table 9-1. WiFi [5GHz/6GHz] / NB UNII (Antenna 5b); Type: Cavity Backed

| FCC ID: BCGA2435 | element | element MEASUREMENT REPORT (CERTIFICATION) | |
|---------------------|------------------------|--|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 125 of 126 |
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| Frequency (MHz) | Horizontal (dBi) | Vertical (dBi) |
|-----------------|------------------|----------------|
| 5180 | 1.5 | 2.4 |
| 5260 | 1.4 | 2.3 |
| 5320 | 2.0 | 2.8 |
| 5500 | 0.1 | 0.7 |
| 5600 | -0.5 | -0.1 |
| 5700 | -1.0 | 0.1 |
| 5745 | -1.1 | 0.3 |
| 5785 | -1.1 | -0.2 |
| 5825 | -2.1 | -0.1 |
| 5955 | -4.0 | -0.7 |
| 6075 | -3.7 | -0.9 |
| 6135 | -2.3 | -0.6 |
| 6255 | -1.1 | 0.6 |
| 6375 | -0.5 | 1.0 |
| 6435 | -0.3 | 1.2 |
| 6555 | -0.7 | -0.3 |
| 6675 | -1.9 | -1.6 |
| 6735 | -1.9 | -1.5 |
| 6855 | -2.4 | -2.7 |
| 6975 | -3.3 | -4.8 |
| 7035 | -4.9 | -5.9 |
| 7115 | -4.9 | -6.2 |

Table 9-2. WiFi [5GHz/6GHz] / NB UNII (Antenna 4a); Type: IFA

| FCC ID: BCGA2435 | element MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|---------------------|--|---------------|--------------------------------|
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